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haps the canals, subserve two very different functions; and yet if this is the case, a problem arises as to why movements of the head are never sensed as noises, nor noises ever felt as movements.

EDWIN B. HOLT.

HARVARD UNIVERSITY.

Objektive Bestimmung der Schwingungszahlen Königscher Flammen ohne Photographie. KARL MARBE. *Physikalische Zeitschrift,* 1906, Bd. 7. S. 543–546.

The author let a König flame play under a moving paper roll, and found that if the paper was near enough somewhat to deflect the flame successive rings of smoke were produced which, when the speed of the paper was rightly adjusted, could be easily counted, and which accurately reproduced the vibration rate affecting the flame. Acetylene gas was used, and the sound was taken from a tuning-fork mounted in a special way on a resonating box. Again, the König membrane was replaced by a telephone membrane and connected with a microphone, and very interesting smoke pictures were obtained of spoken words. This method of recording oscillations of the König flame is simpler and cheaper than the photographic. The chief manipulative difficulty would seem to be that after passing the flame the paper is immediately rolled on a drum before the smoke curve is fixed. Yet the author reproduces excellent curves of tuning-fork vibrations, circuit alternations and spoken words. The photographic method if carefully handled gives more detail, yet the smoke curves of the voice look as if, on careful analysis, they might yield more intricate details than merely the fundamental pitch of voice sounds. They ought, moreover, admirably to record accent and syllable length in spoken verse. The method is interesting, and the curves that are reproduced are well worth looking at.

EDWIN B. HOLT.

HARVARD UNIVERSITY.

JOURNALS AND NEW BOOKS

ZEITSCHRIFT FÜR PSYCHOLOGIE UND PHYSIOLOGIE DER SINNESORGANE. May, 1906, Band 41, Heft 5 u. 6. Abteilung für Psychologie. *Theorie der geometrisch-optischen Gestalttäuschungen* (pp. 321–348): LUDWIG BURMEISTER. – The first of a series of papers based on a very careful study of geometrical optical illusions. The observations in this paper are confined to illusions of perspective with right-angled plane figures or cards. Derivation of the fundamental theoretical relations between the *Objektgebilde* and the *Truggebilde. Beobachtungen über das Leben der Protozoen* (pp. 349–381): ANTON ÖLZELT-NEWIN. – General observations on the reactions of various protozoa by an observer apparently ready to attribute any degree of consciousness to these forms. Chief argument is that of continuity, the consequences of which would lead to ascribing a psychic minimum as a disposition to the cell. *Ueber*